



RADM Mayer
Naval Safety Center

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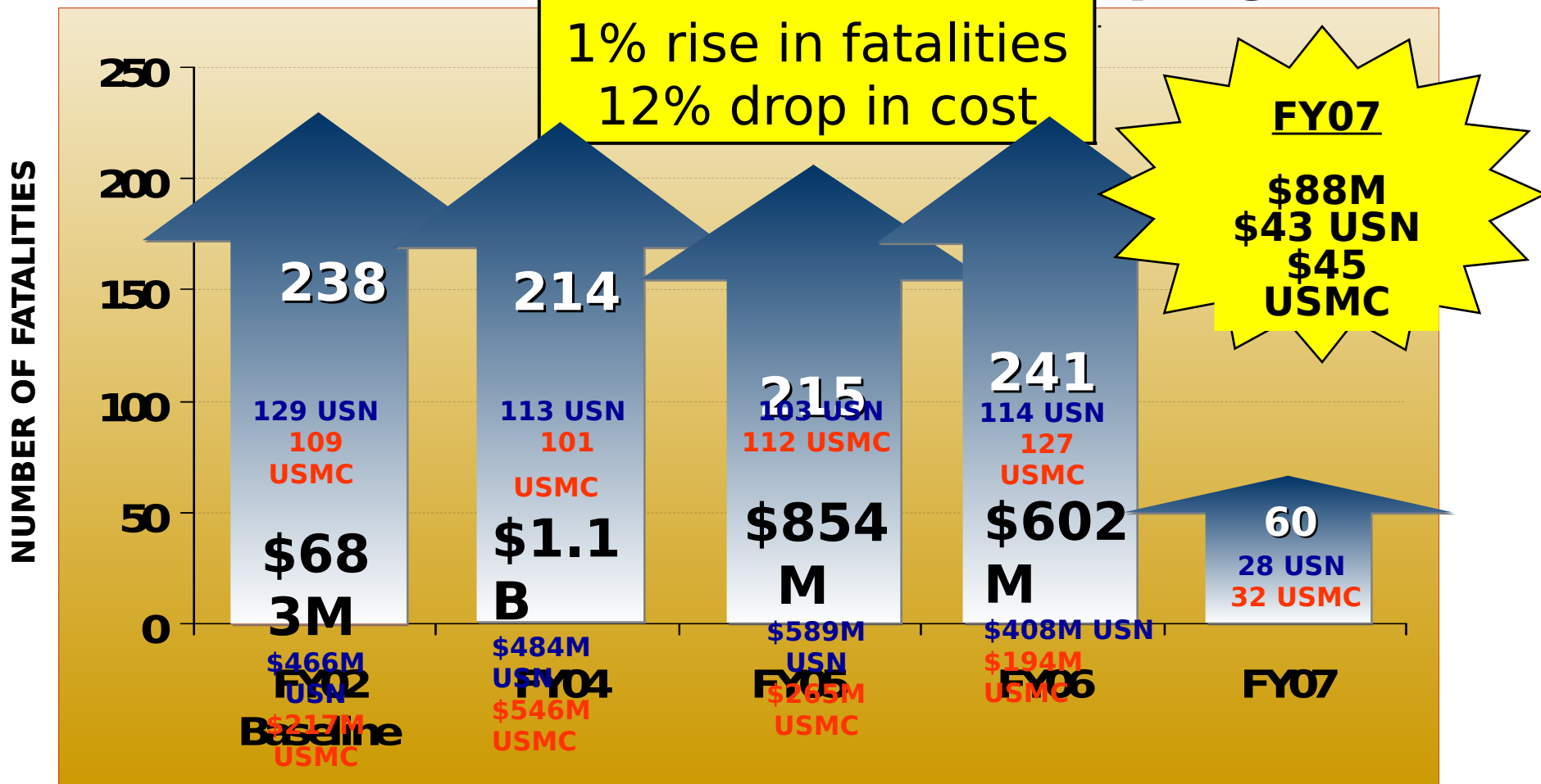
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15



USN/USMC Fatalities & Resources Lost During

Mishap Campaign



ENDSTATE GOAL IS ZERO!

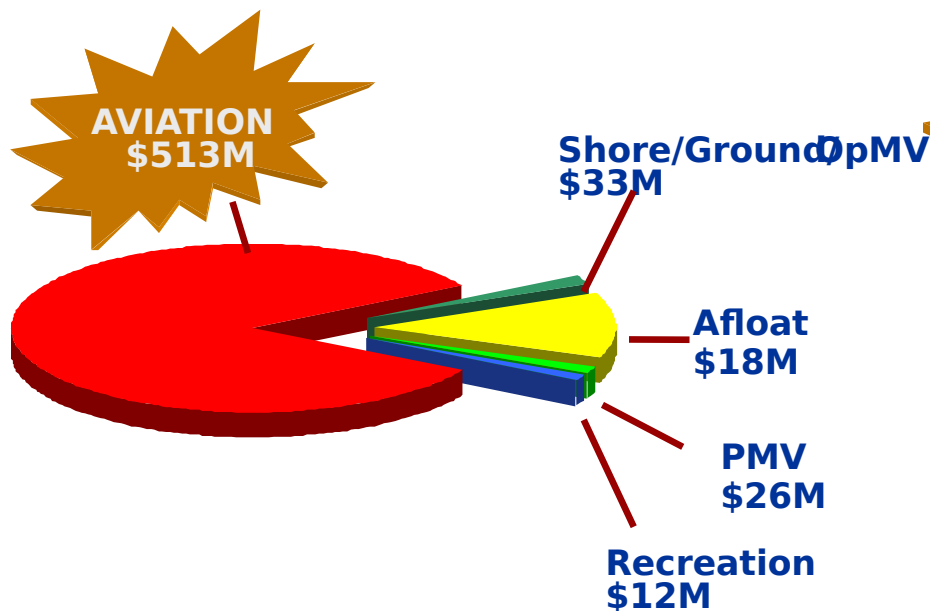
NSC Data: 29 Jan 07



FY06 Total Cost and Deaths

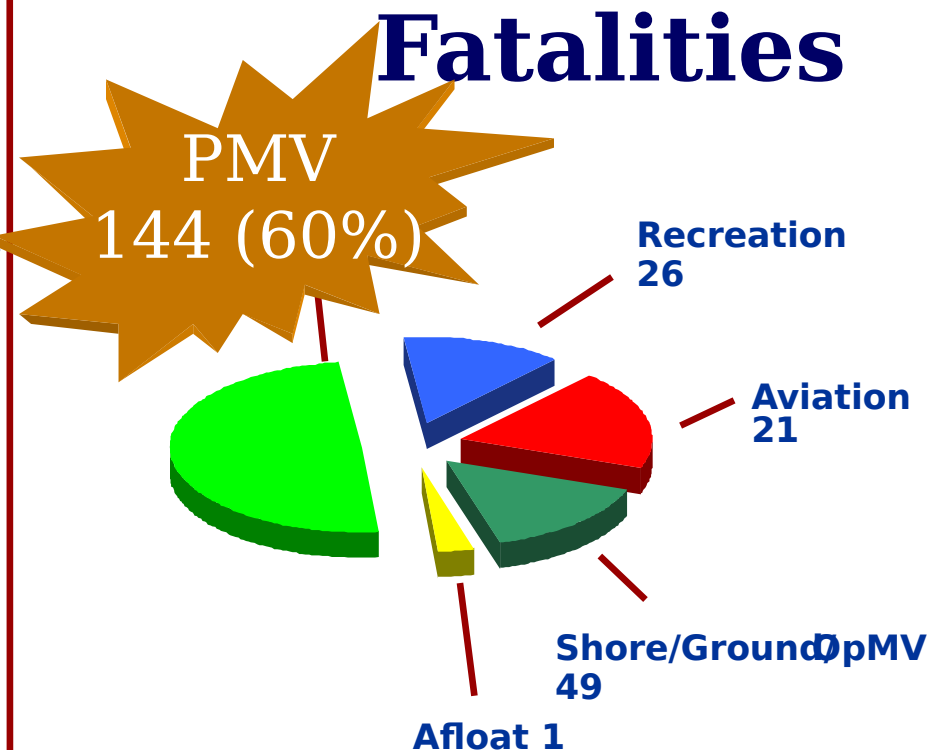
Navy and Marine Corps

Cost



Total Cost: \$602M

Fatalities




Total Fatalities: 241



SECRETARY RUMSFELD'S CHALLENGE

**There is no
excuse for
losing
lives... I
want to see
the results
of your**



THE SECRETARY OF DEFENSE
1000 DEFENSE PENTAGON
WASHINGTON, DC 20301-1000

JUN 22 2006

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
COMMANDERS OF THE COMBATANT COMMANDS
SERVICE CHIEFS

SUBJECT: Reducing Preventable Accidents


I have set some very specific mishap reduction goals for the Department to achieve. My congratulations to those who are progressing toward their respective goals, but others are not. We must rededicate ourselves to those goals – and achieve them.


Too often we excuse mishaps by citing the difficult circumstances in which we operate. We have trained our men and women to operate safely in very trying conditions. There is no excuse for losing lives given proper planning, attention to detail, and the active involvement of the chain of command.

Accountability is essential to effective leadership. I expect all the Department's leaders, from the Commander to the first line supervisors, to be accountable for mishaps under their watch. We simply will not accept status quo.

If we need to change our training, improve our material acquisition, or alter our business practices to save the precious lives of our men and women, we will do it. We will fund as a first priority those technologies and devices that will save lives and equipment. We will retrofit existing systems, and consider these devices as a "must fund" priority for all new systems. We can no longer consider safety as "nice-to-have."

I want to hear what you are doing to improve your safety performance and I want to see the results of your actions.





OSD 09859-06
6/22/2006 2:59:57 PM

Memorandum from Secretary of Defense, 22
June 2006

ASC February 2007

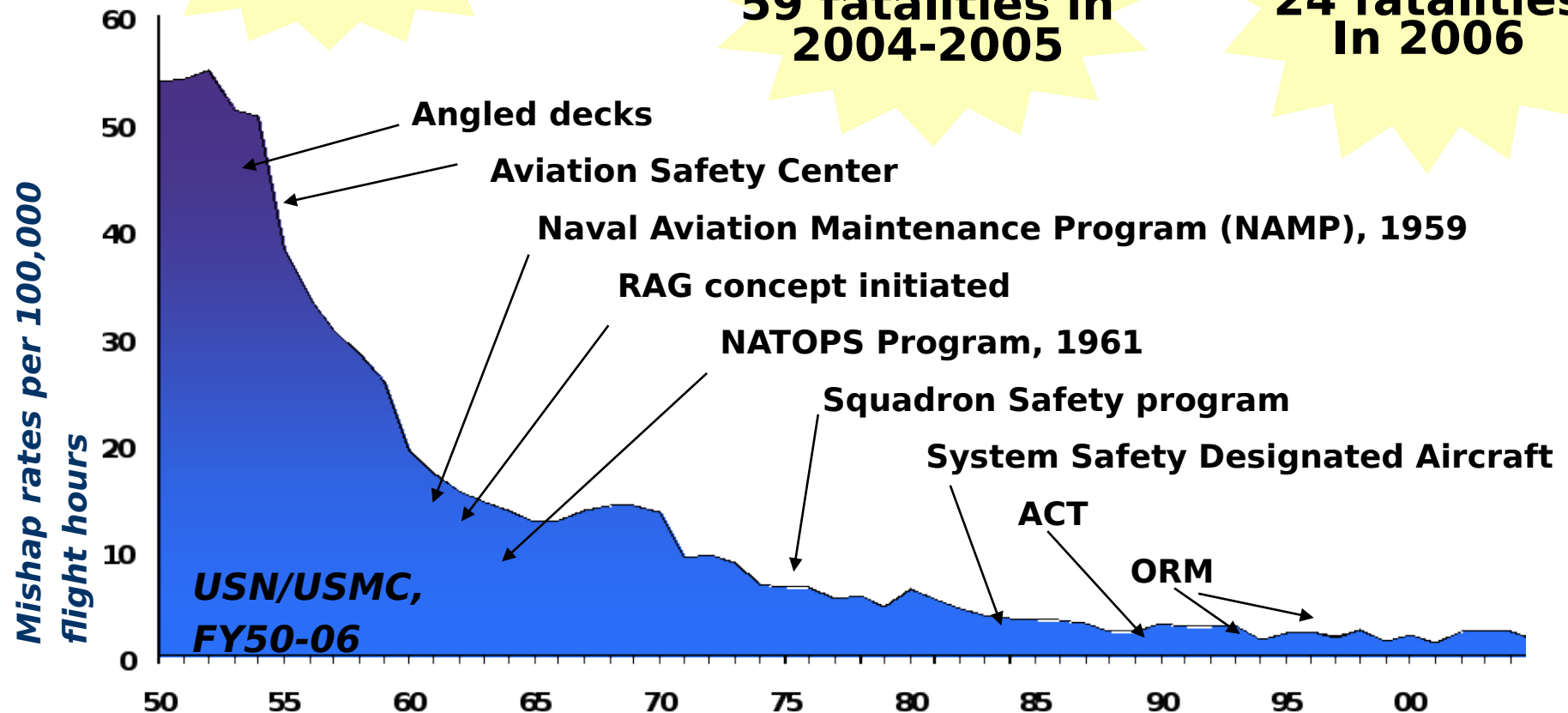


NAVAL AVIATION HISTORY

**776 aircraft
destroyed in
1954**

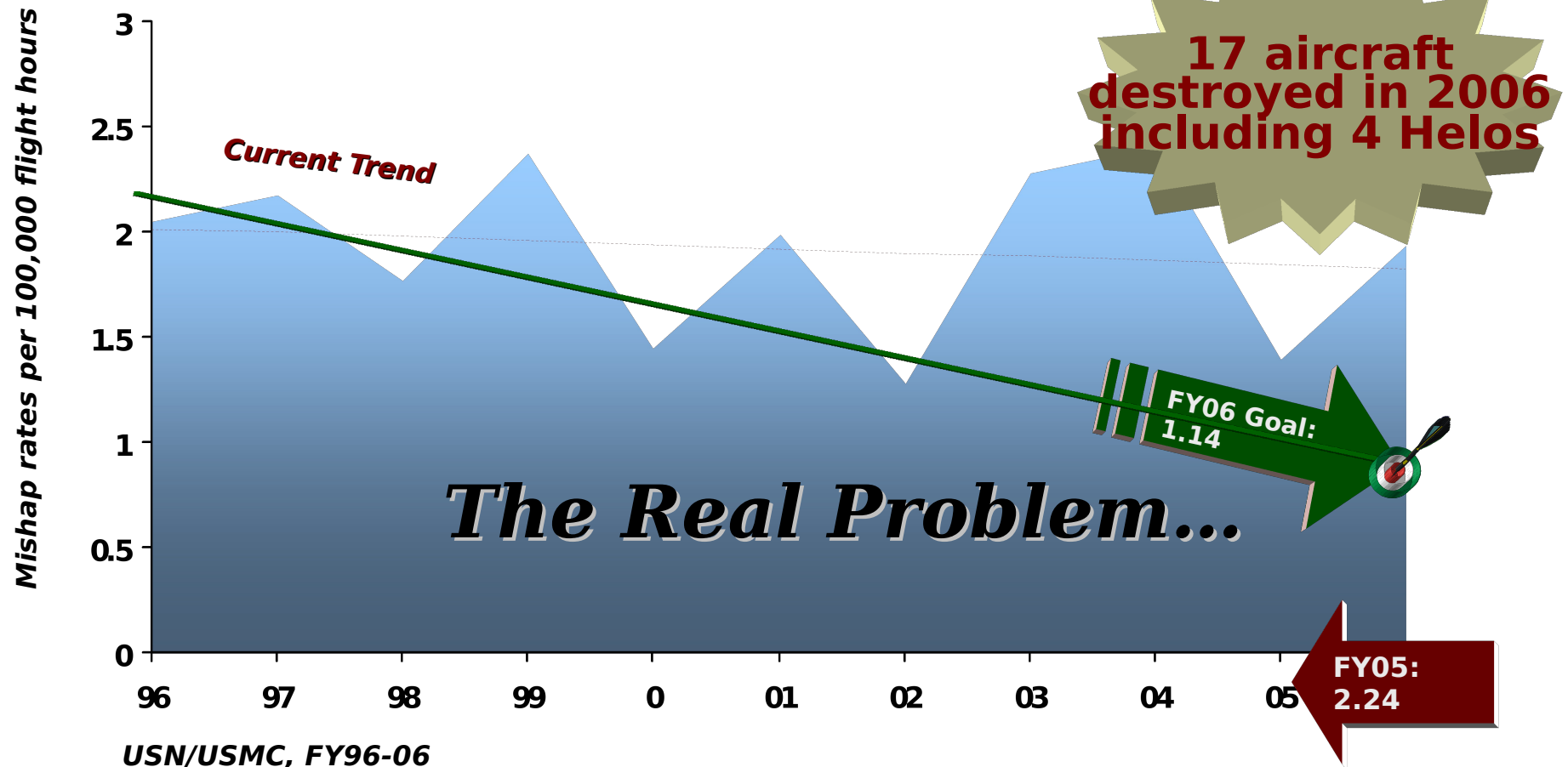
**45 aircraft
destroyed and
59 fatalities in
2004-2005**

**17 aircraft
destroyed and
24 fatalities
In 2006**



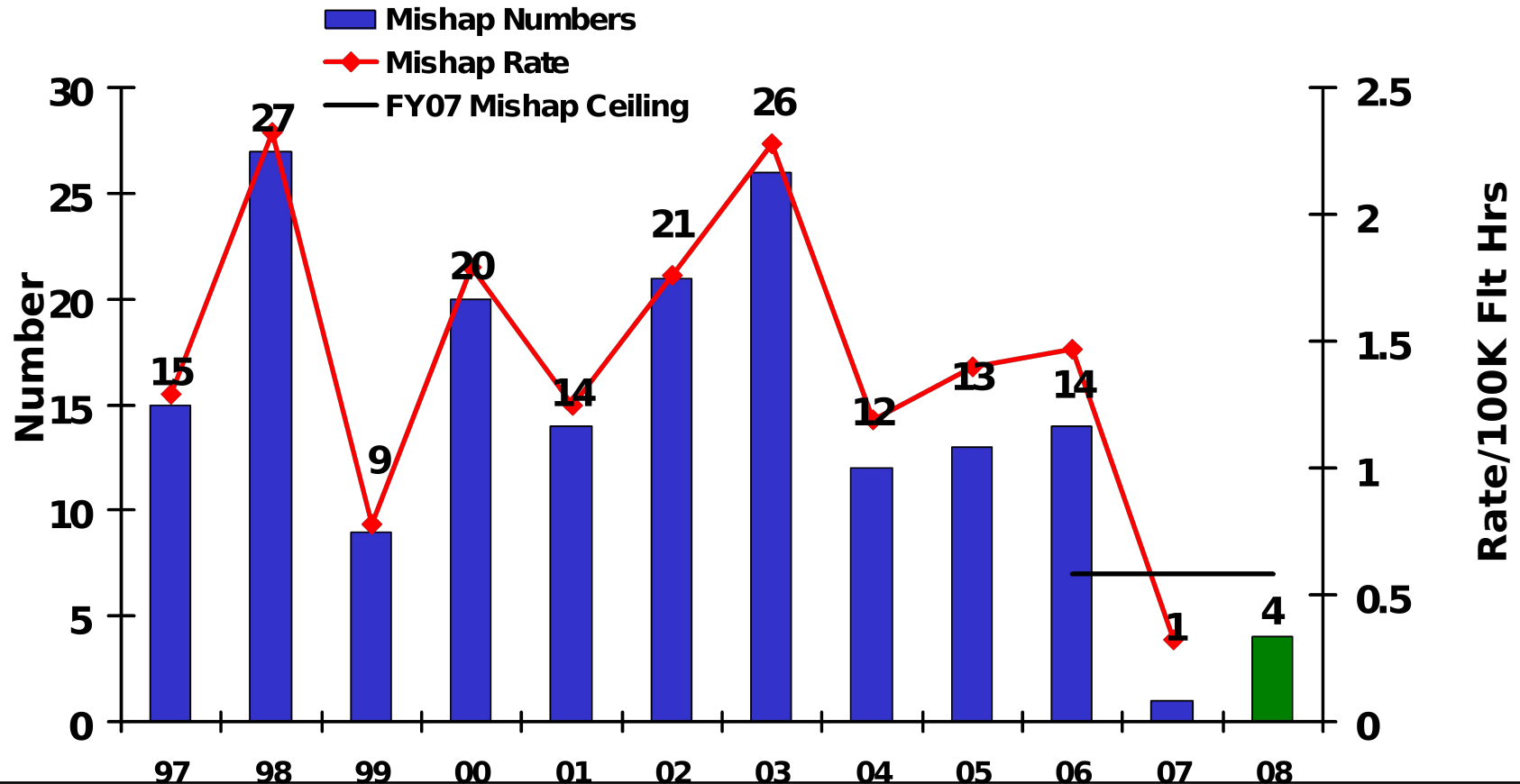


Naval Aviation Mishap Trend





CLASS A FLIGHT MISHAPS



06

CLASS A FM/FM RATE FY COMPARISON: 1/ 0.32

7 / 2.26

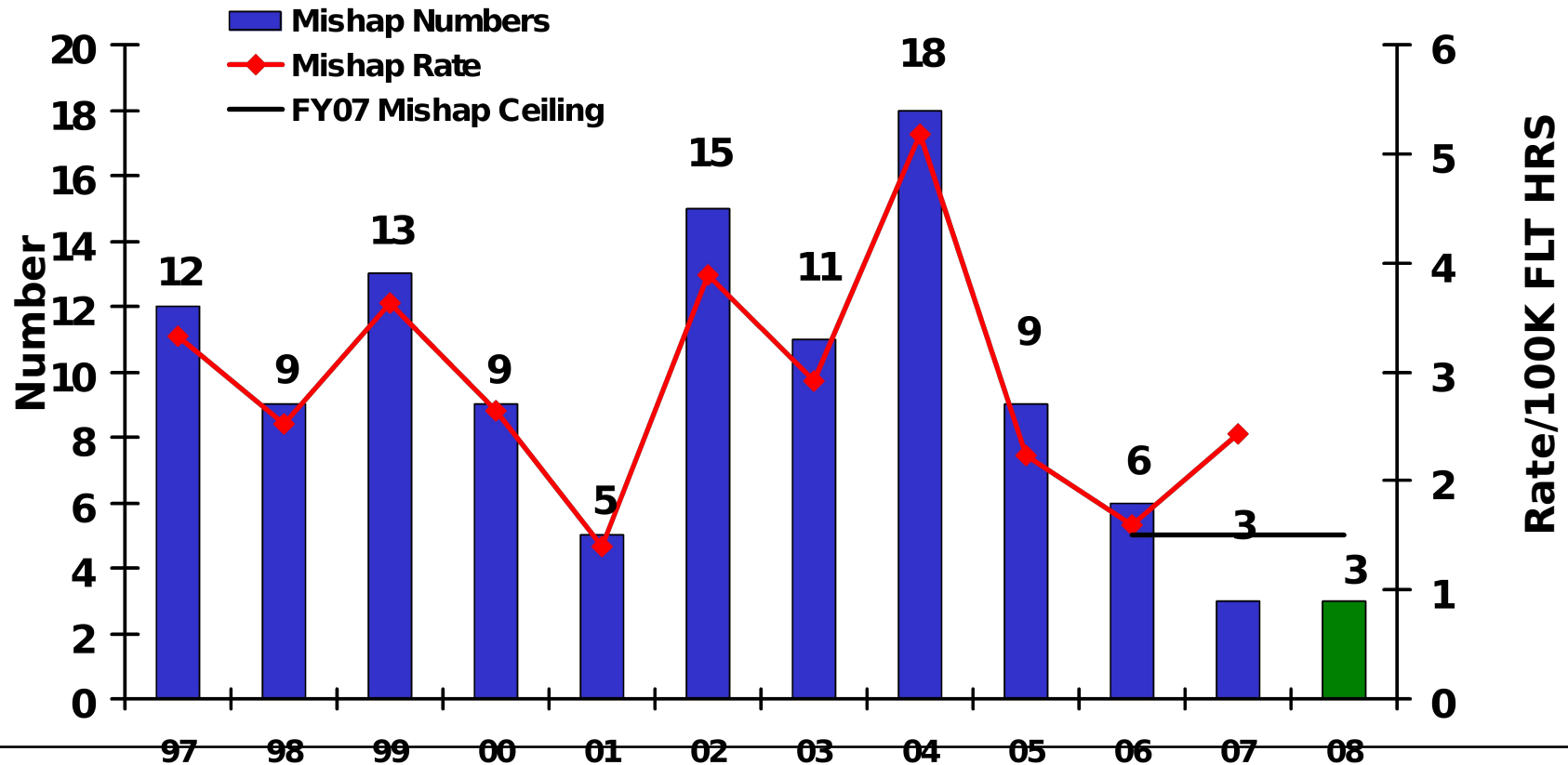
FY06 MISHAPS/MISHAP RATE: 14 / 1.47

10-YEAR AVERAGE (FY97-06) MISHAPS/MISHAP RATE: 17.1 / 1.56

ASC February 2007



CLASS A FLIGHT MISHAPS



06

0.82

CLASS A FM/FM RATE FY COMPARISON: **3 / 2.43** **1/**

FY06 MISHAPS/MISHAP RATE: **6 / 1.59**

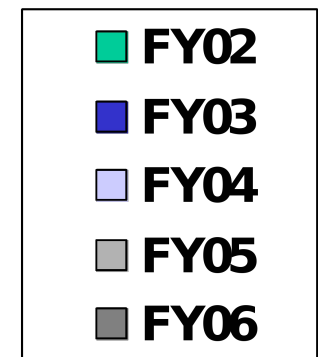
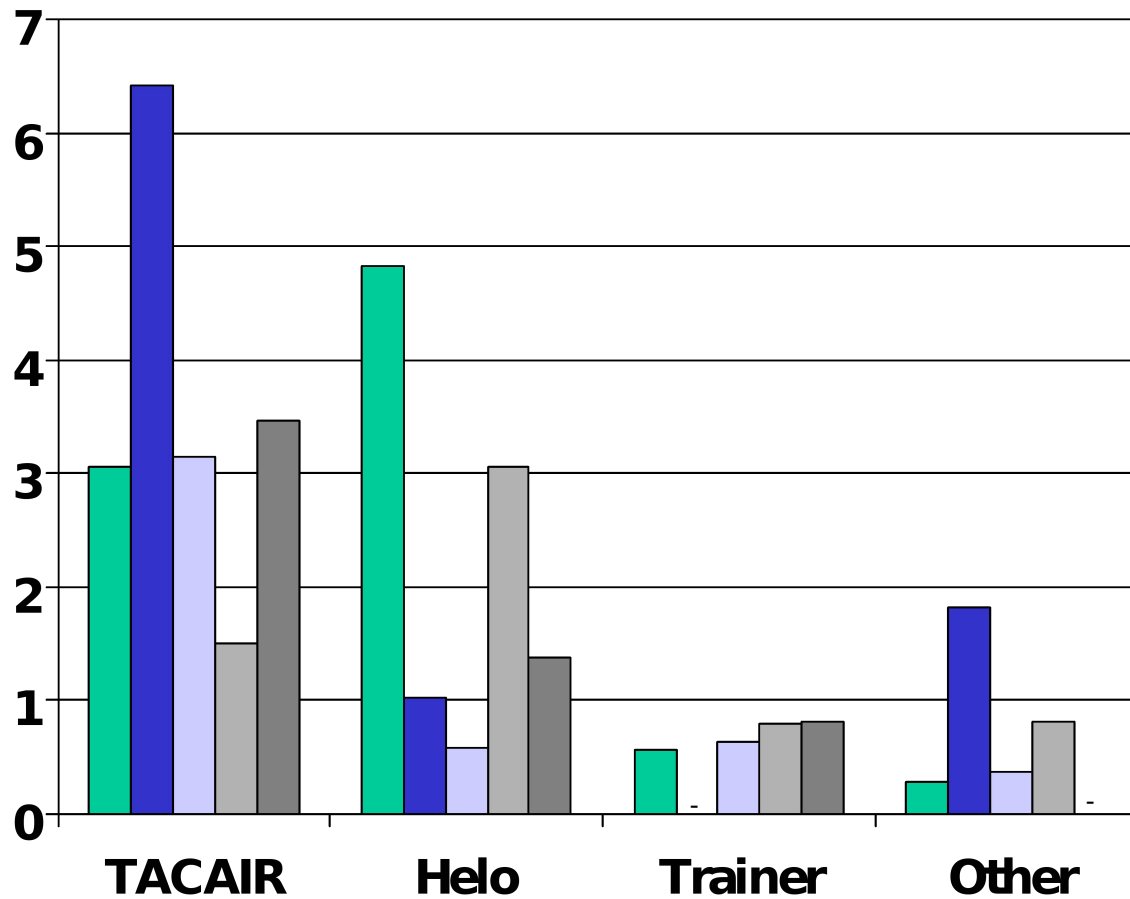
10-YEAR AVERAGE (FY97-06) MISHAPS/MISHAP RATE: **10.7 / 2.92**

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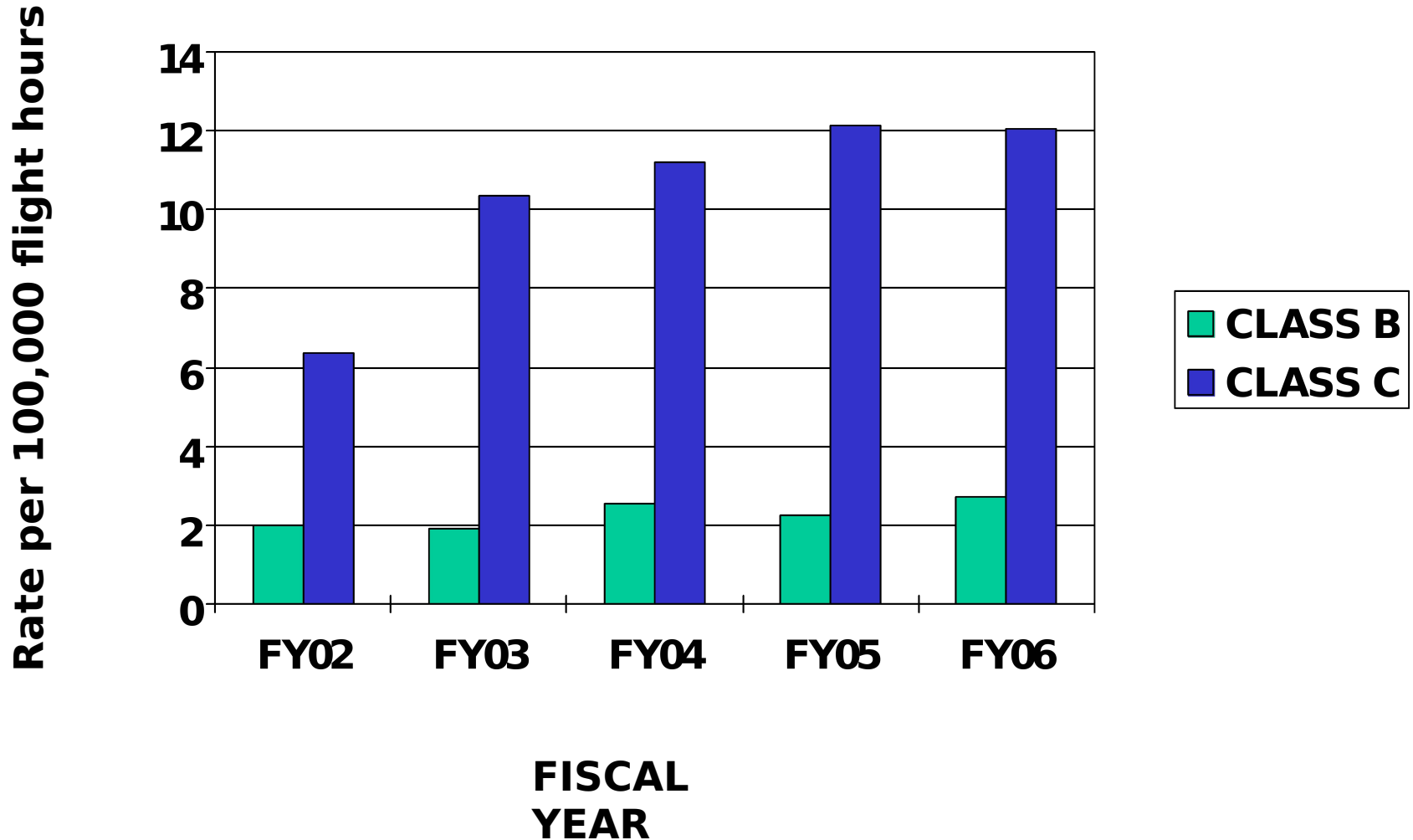
CLASS A FLIGHT MISHAP RATE

Rate per 100,000 flight hours



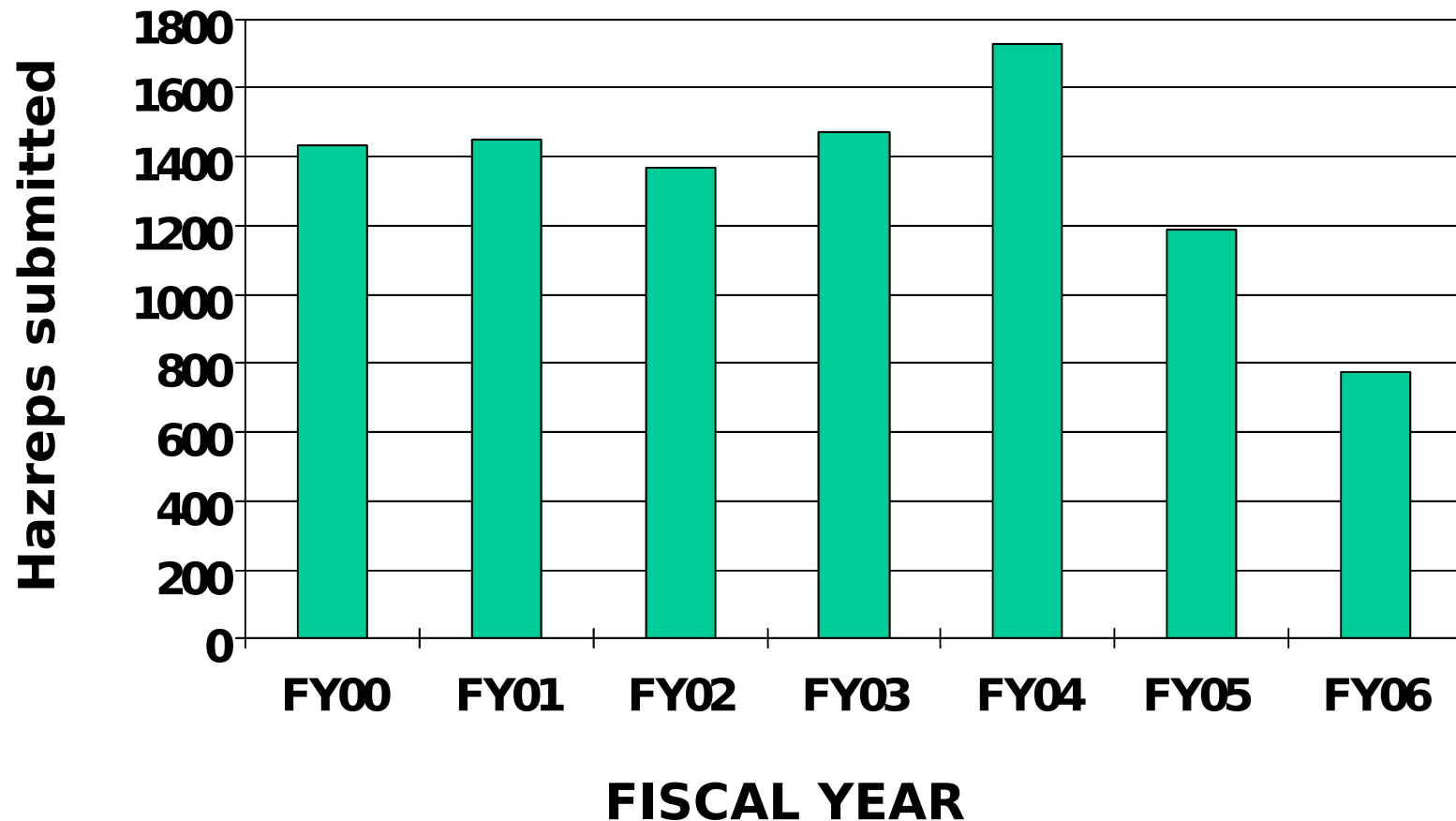


AVIATION CLASS B/C MISHAP RATE





AVIATION HAZARD REPORTS





F-18 Flathatting



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Tactics to Defeat the “Blue Threat”

Blue Threat - Action/Inaction by own forces causing losses

Blue Threat - Losses far exceed **Red Threat** losses



TAILHOOK **RED** VS. **BLUE** THREAT (FY06)

- **RED THREAT:**

- 0 fatalities
- 0 aircraft

VS.

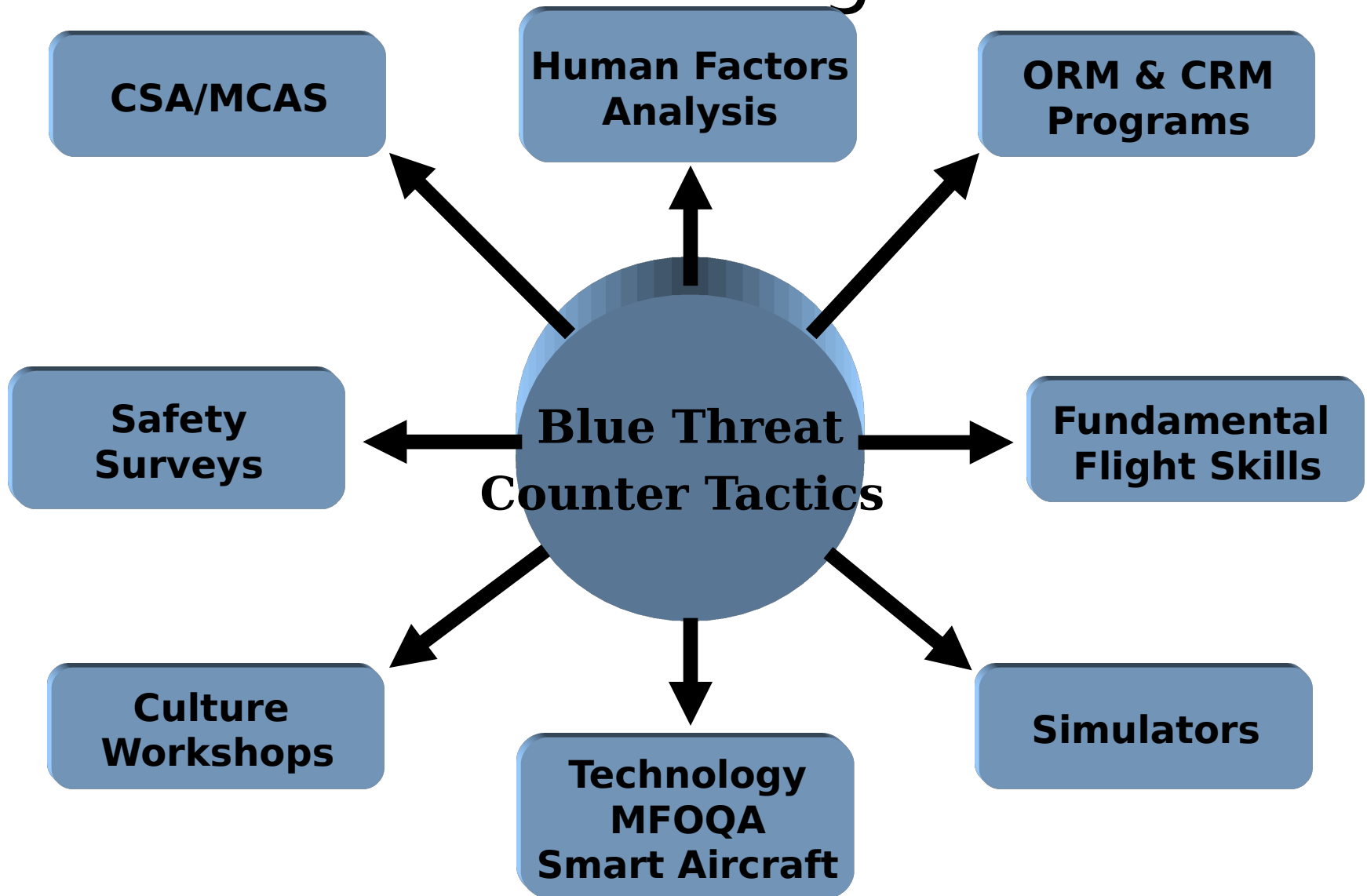
- **BLUE THREAT:**

- 2 fatalities
- 8 aircraft destroyed





Aviation Intervention Strategies





Blue Threat Analysis



EA-6B runway mishap

- Mishap flight originated in Whidbey
 - Headed to Jacksonville depot
 - Scheduled stop in Colorado Springs for fuel
- Poor weather conditions
 - Blinding thunderstorm
 - 90 degree crosswind
- Authorized divert to Buckley
 - Divert 60 miles away with perfect weather conditions
 - Chose to continue with Colorado Springs stop
- Mishap flight departed runway
 - Upon landing, plane hydroplaned and slid off runway after brakes locked up.



Blue Threat Analysis



AV-8B Approach Mishap

Due to delays, only two flights would be accomplished.

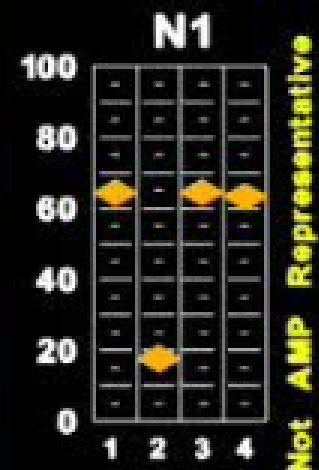
- MCAS Cherry Point to NAS Oceana
- Oceana to Republic Airport, Long Island, NY

GPS approach not authorized

- Mishap wingman downloaded GPS approach for NY airport from civilian aviation website.

MP's aircraft departed overrun

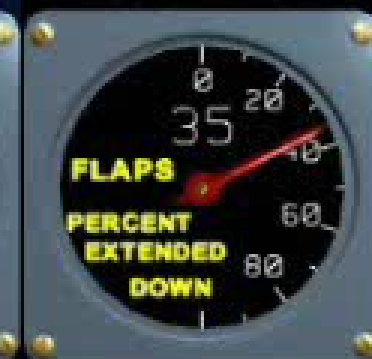
- Continued through gravel trap, then hit ILS antenna and stopped.



Feet Below PAPI G/S
474.43

Distance to go
6.197 NM


Gear Down





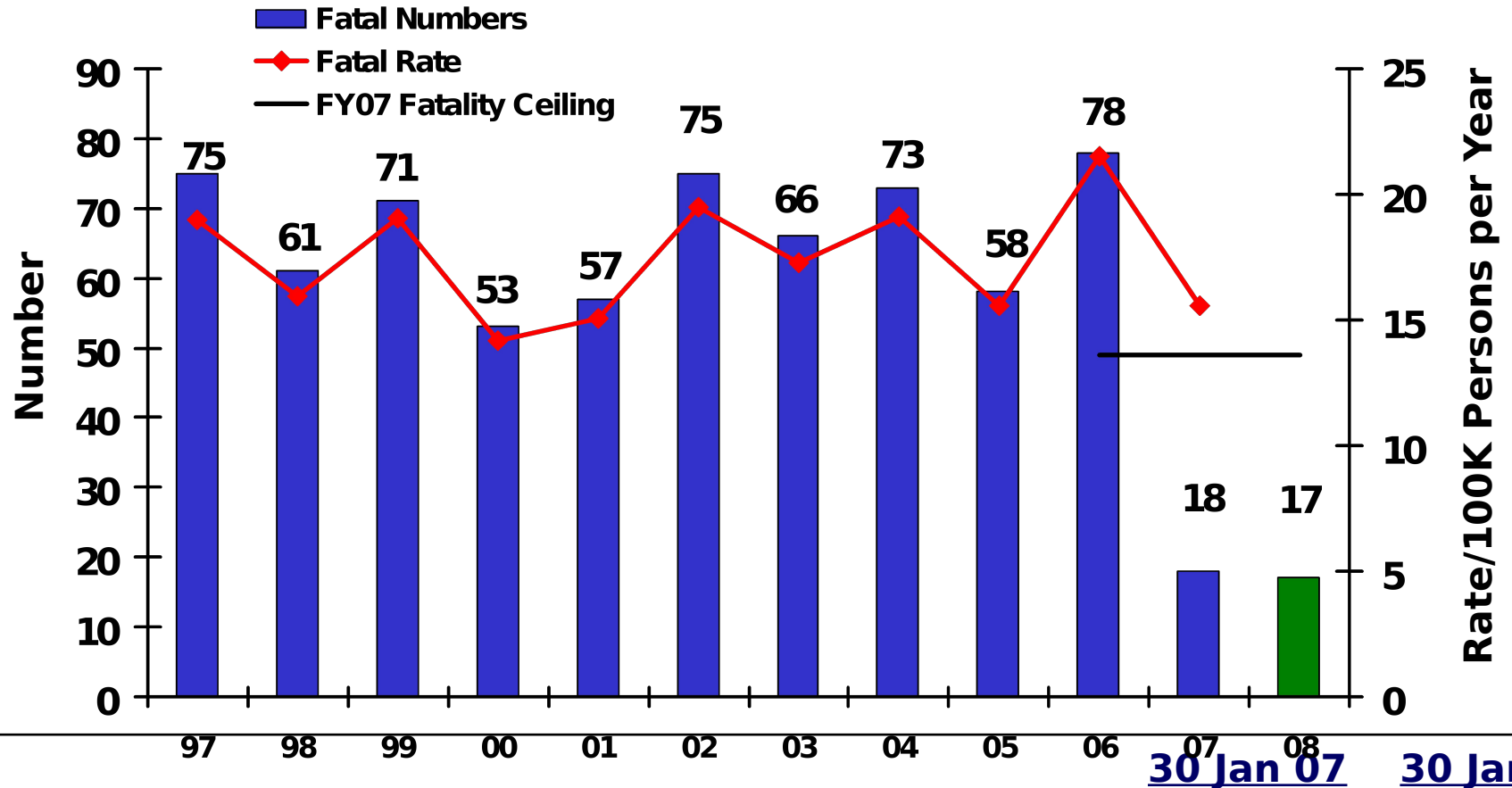
Survey Takeaways - FY 2006

Safety Surveys on 80+ aviation commands revealed:

- 1. ORM implementation**
- 2. Enlisted Safety Committees**
- 3. Hydraulic contamination control and monitoring**
- 4. Ready Service Lockers**
- 5. Ordnance certification program**
- 6. Multiple-Piece Tool accountability**
- 7. IMRL/Calibration program**
- 8. TD-1A/B Tie down chains are not being**



PMV FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 18 / 15.55 38 / 31.67

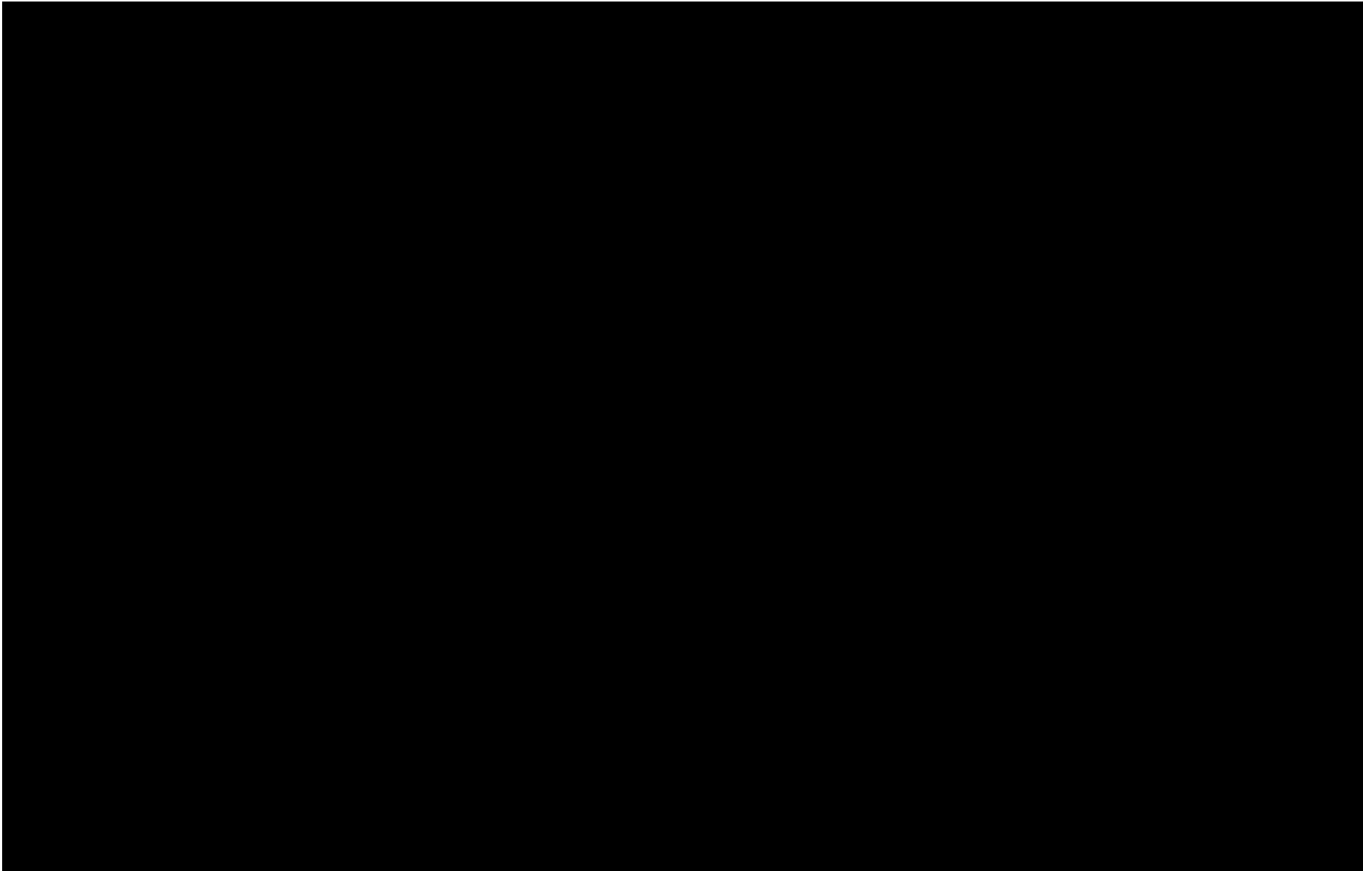
FY06 FATALITIES/FATALITY RATE: 78 / 21.49

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 66.7 / 17.61

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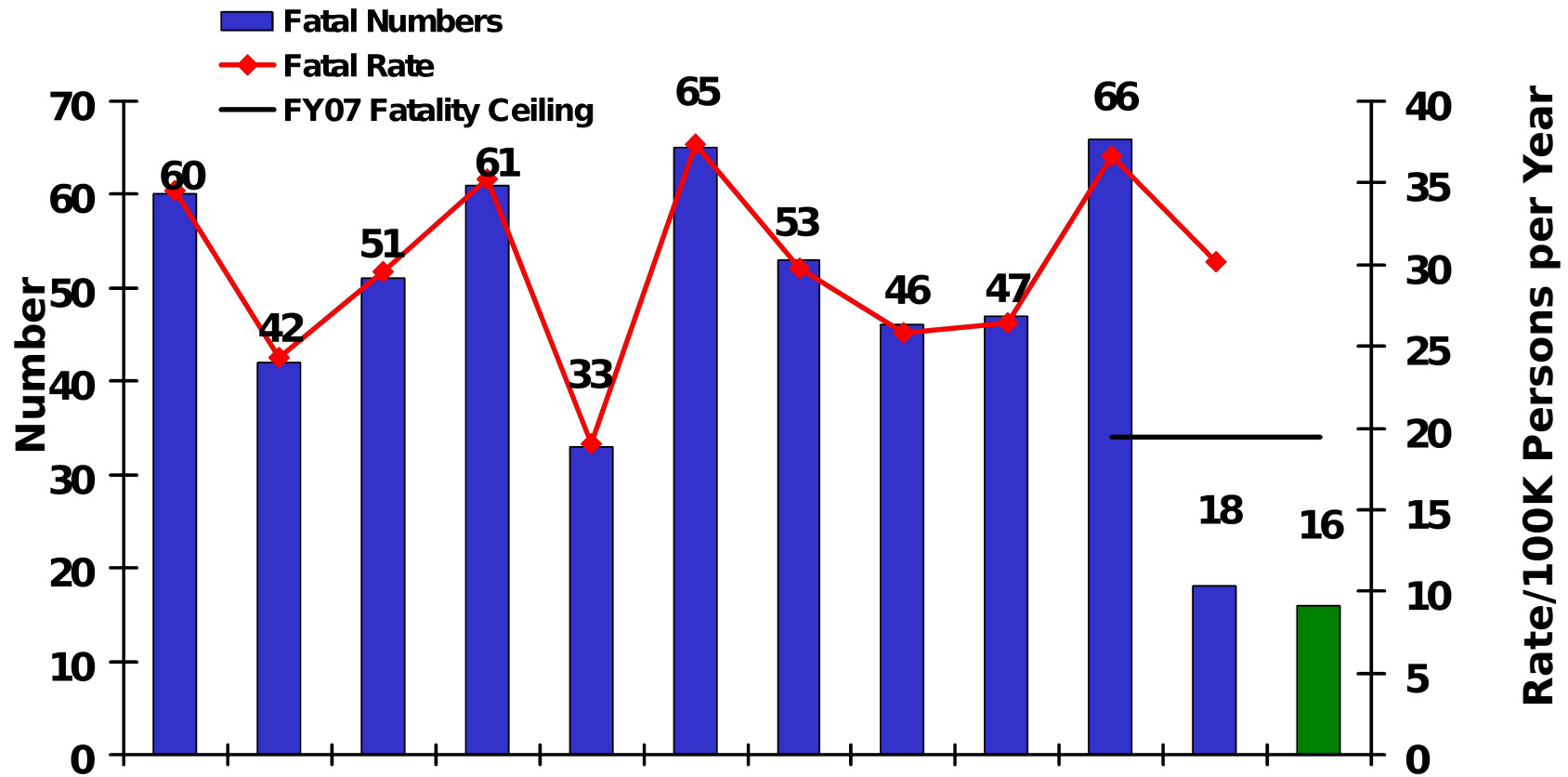


How Close?





PMV FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 18 / 30.17 23 / 38.64

FY06 FATALITIES/FATALITY RATE: 66 / 36.66

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 52.4 / 29.90

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144 USN & USMC PMV Fatalities

=

7.6 USS Cole Losses

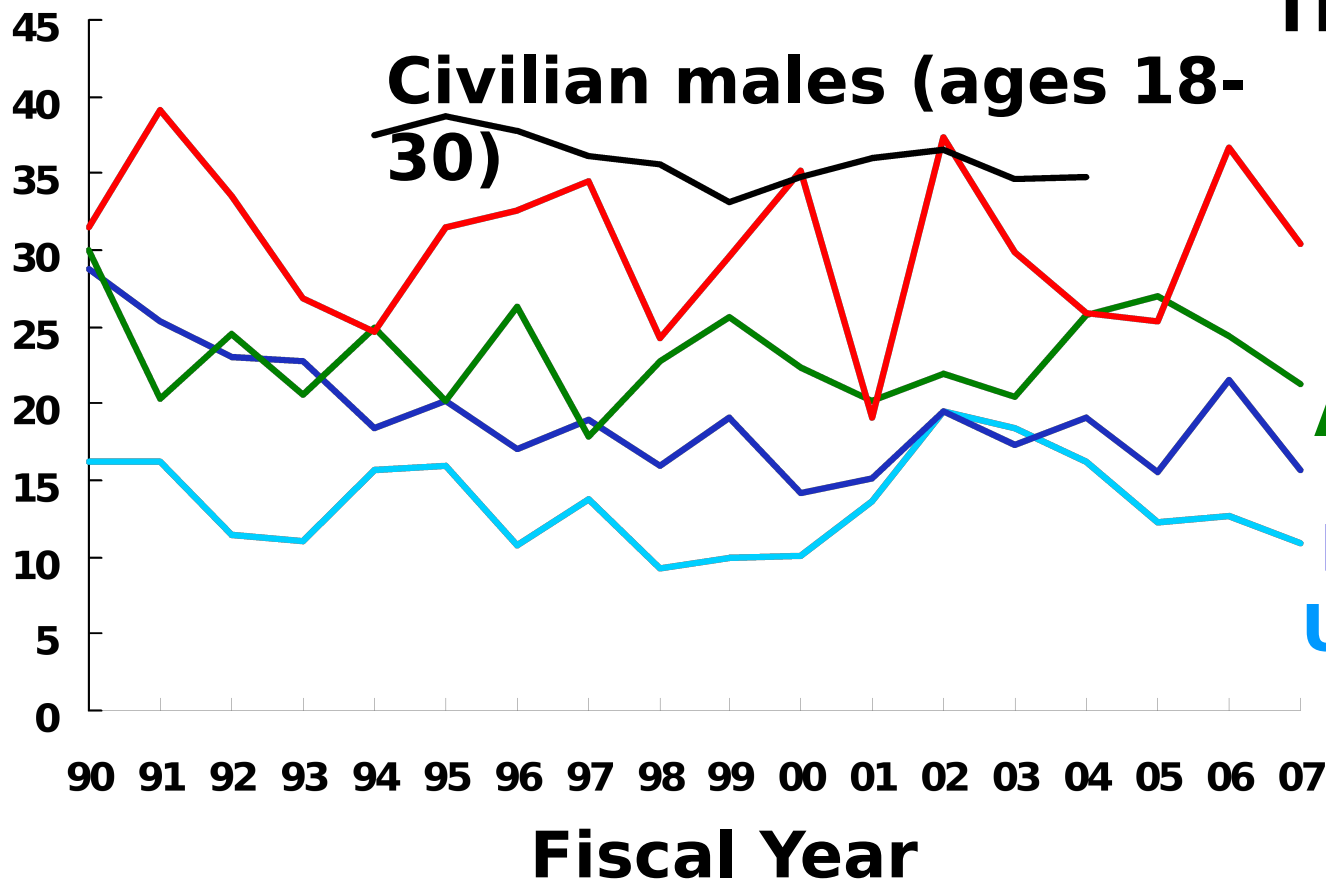


ASC 28 September 2006



Armed Forces Traffic Fatality Rates

Through 29 Jan07



Rates per 100,000 active duty military personnel per year.

30.42 (18)
25.29 (35)
Army
15.67 (18)
Navy
10.93 (12)
USAF

Percentage of Force Under 26 Years

USMC = 69%

Army = 48%

Navy = 45%

USAF = 39%

An aerial, high-angle shot of a two-lane asphalt road winding through a green, grassy landscape. A red semi-truck is traveling away from the viewer in the upper lane. A white sedan is traveling towards the viewer in the lower lane. The image has a slightly blurred, motion-captured quality.

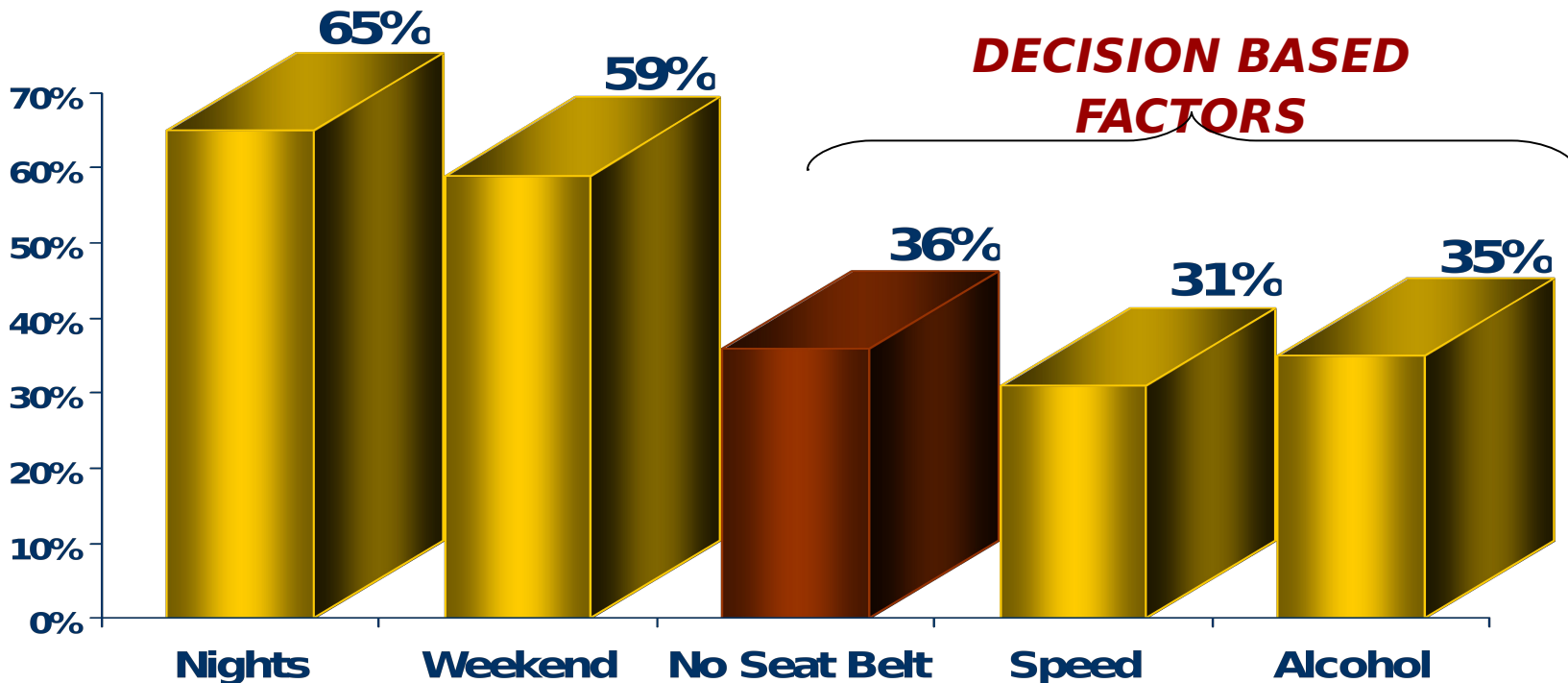
vidman.ca



Leading Factors in PMV Deaths

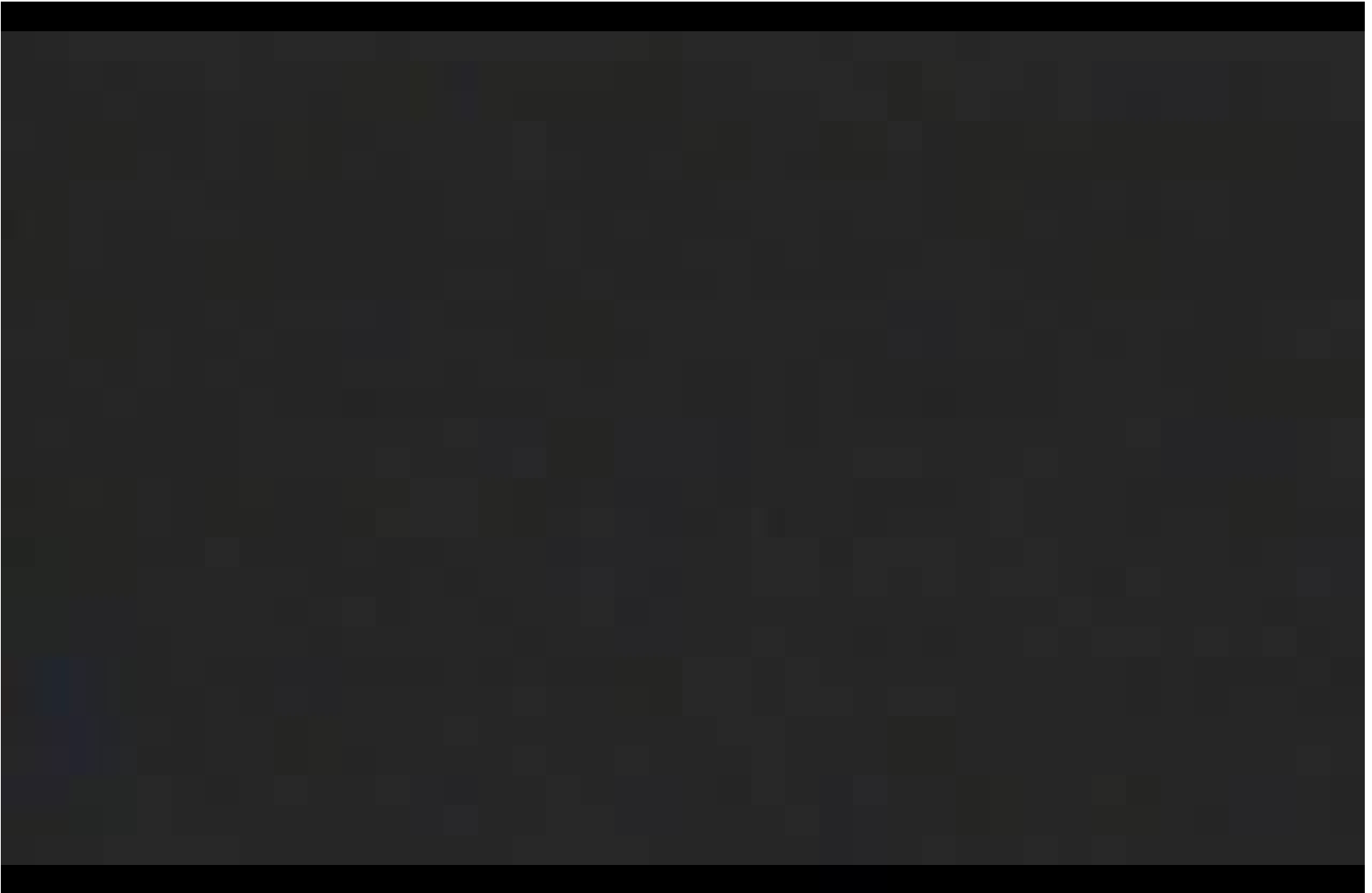
FY02 - FY06

Fatigue is considered a major factor in traffic deaths, but is under-reported throughout the fleet.





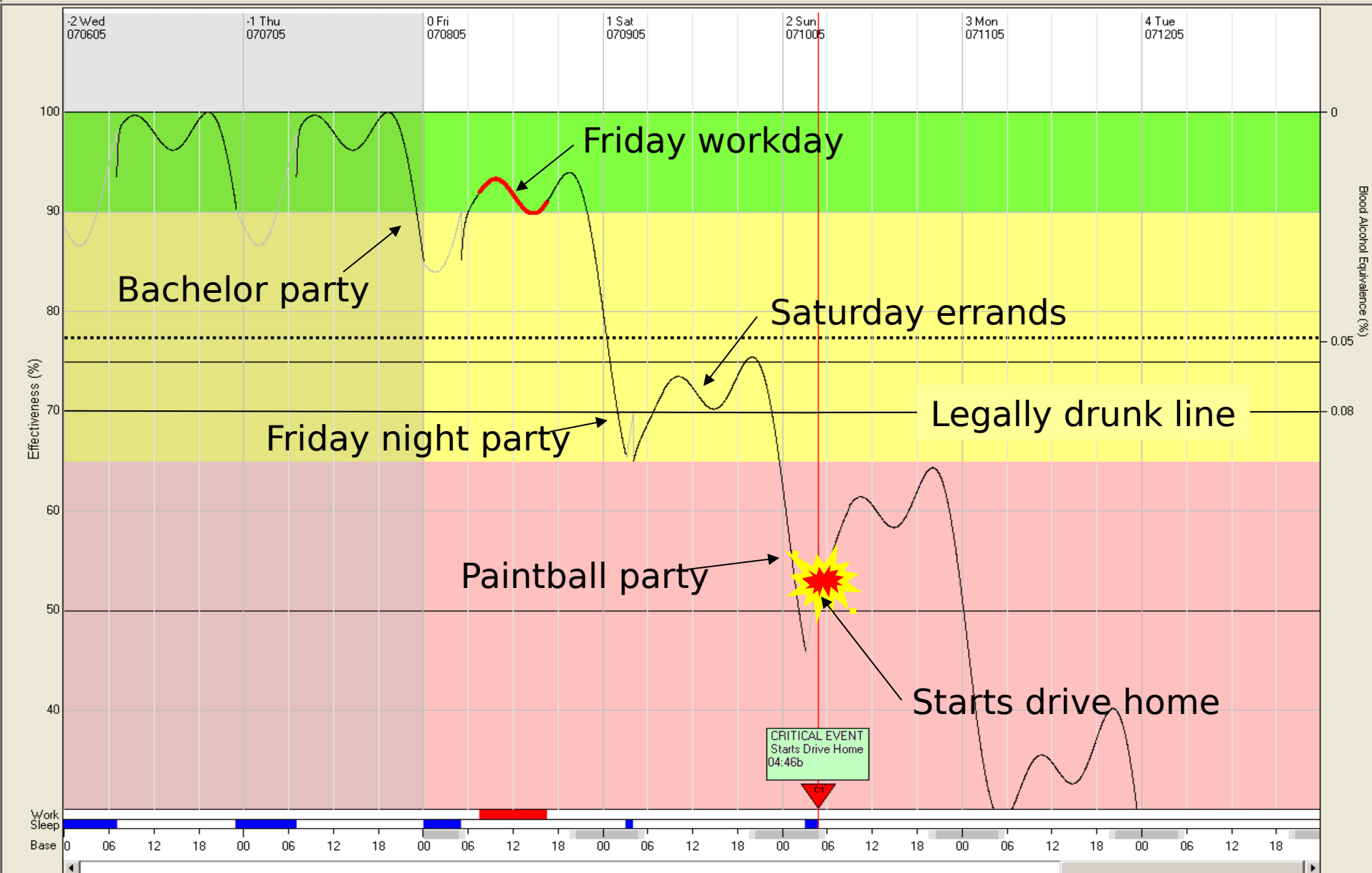
No One Should Die Because They Weren't Wearing A Seatbelt





NAVSAFECEN "Friday Funnies"

- **An E-5 went to a bachelor party until midnight, slept five hours, then went to work. Toiled all day, then went on leave.**
- **Drove 120 miles to a party and boogalooed until 3:00 in the morning. Slept for an hour on the way back, ran errands all day, met some friends for a midnight game of paintball that lasted, once again, until that magical hour of 3 a.m.**
- **Headed home at 4:45 a.m. Pulled over within 30 minutes to stretch and yawn.**
- **He then got back behind the wheel, fell asleep on a causeway, veered off the road and ran into two guard rails. His pickup truck went airborne and splashed down into the bay below.**
- **The Sailor came to, released his seat belt, crawled through a broken window, and swam to a pylon. Fortunately, a passing motorist had seen this drama and called emergency services.**
- **The sound of your vehicle crumpling into an indistinguishable wad around your suddenly wide-awake self is your last choice in an alarm clock. And spending four days in the hospital and two weeks convalescing is a dismal way to spend your two weeks of post-deployment leave.**





DRIVECAM



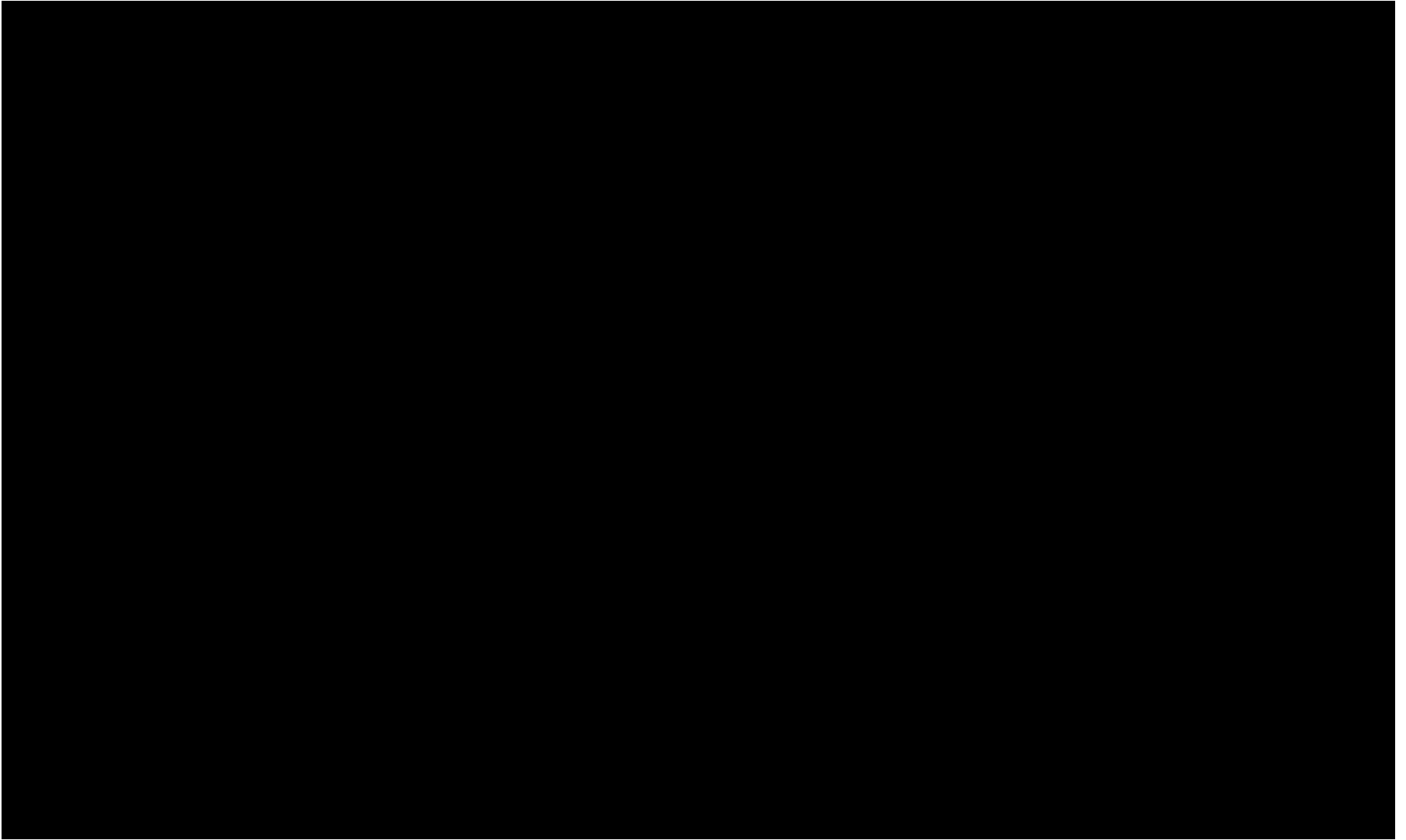


Best Fleet Practices - PMV

- 1. Risk Management - Find out who is at risk - Help them manage that risk.**
- 2. Letter home to solicit family's help to keep their loved one safe.**
- 3. Traffic Safety Toolbox to provide the necessary tools to reduce mishaps.**
- 4. Engage in partnerships with local community. (Click It or Ticket, You Drink, You Drive, You Lose, MADD)**
- 5. Traffic Safety Across America. (Trained supervisory personnel on drinking and driving, seat belt use, PPE, speed, fatigue)**
- 6. TRiPS**

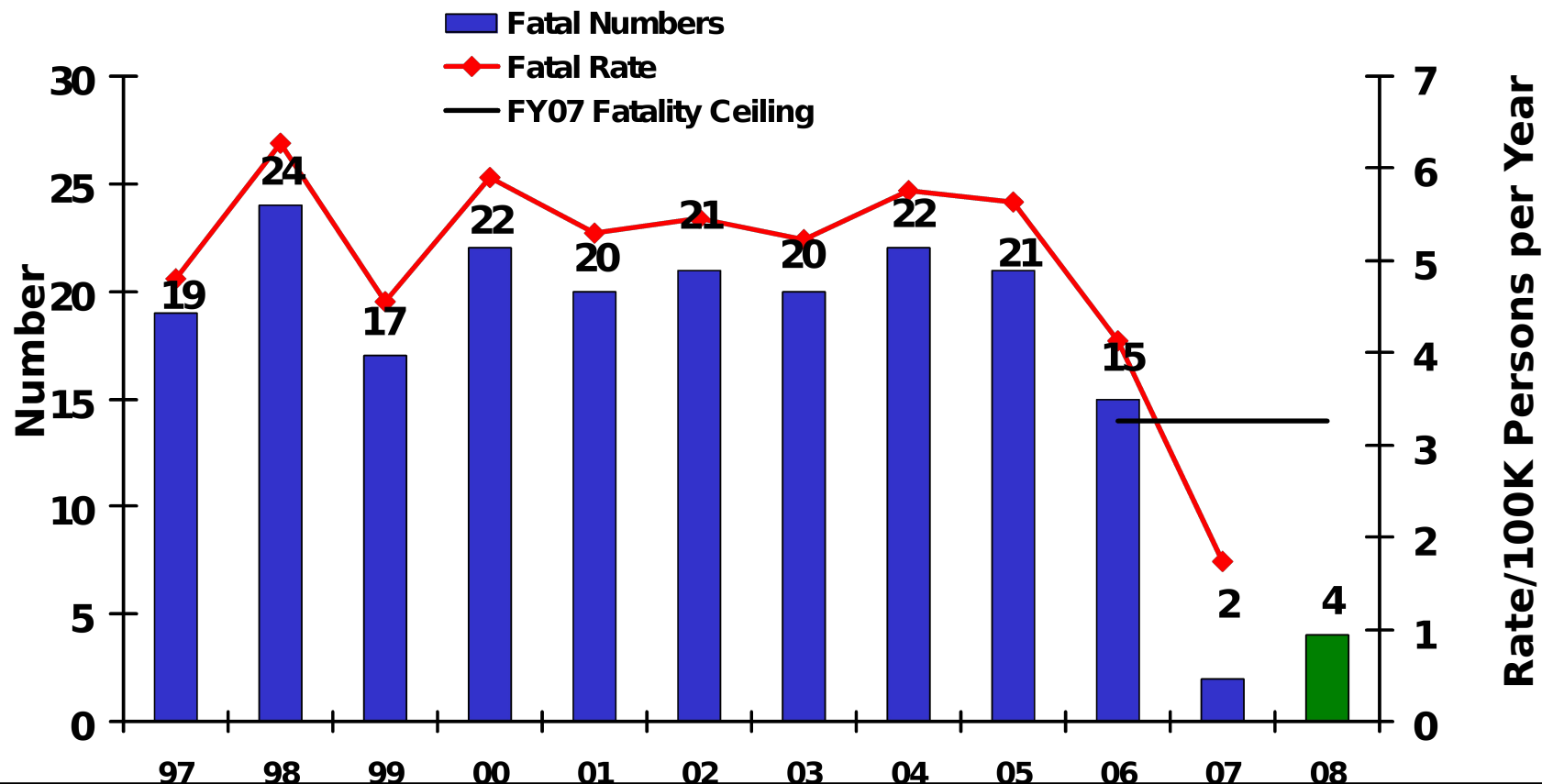


The Difference of 5 KM





OFF-DUTY/REC FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 2 / 1.73 6 / 5.00
FY06 FATALITIES/FATALITY

RATE: 15 / 4.13

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 20.1 / 5.31

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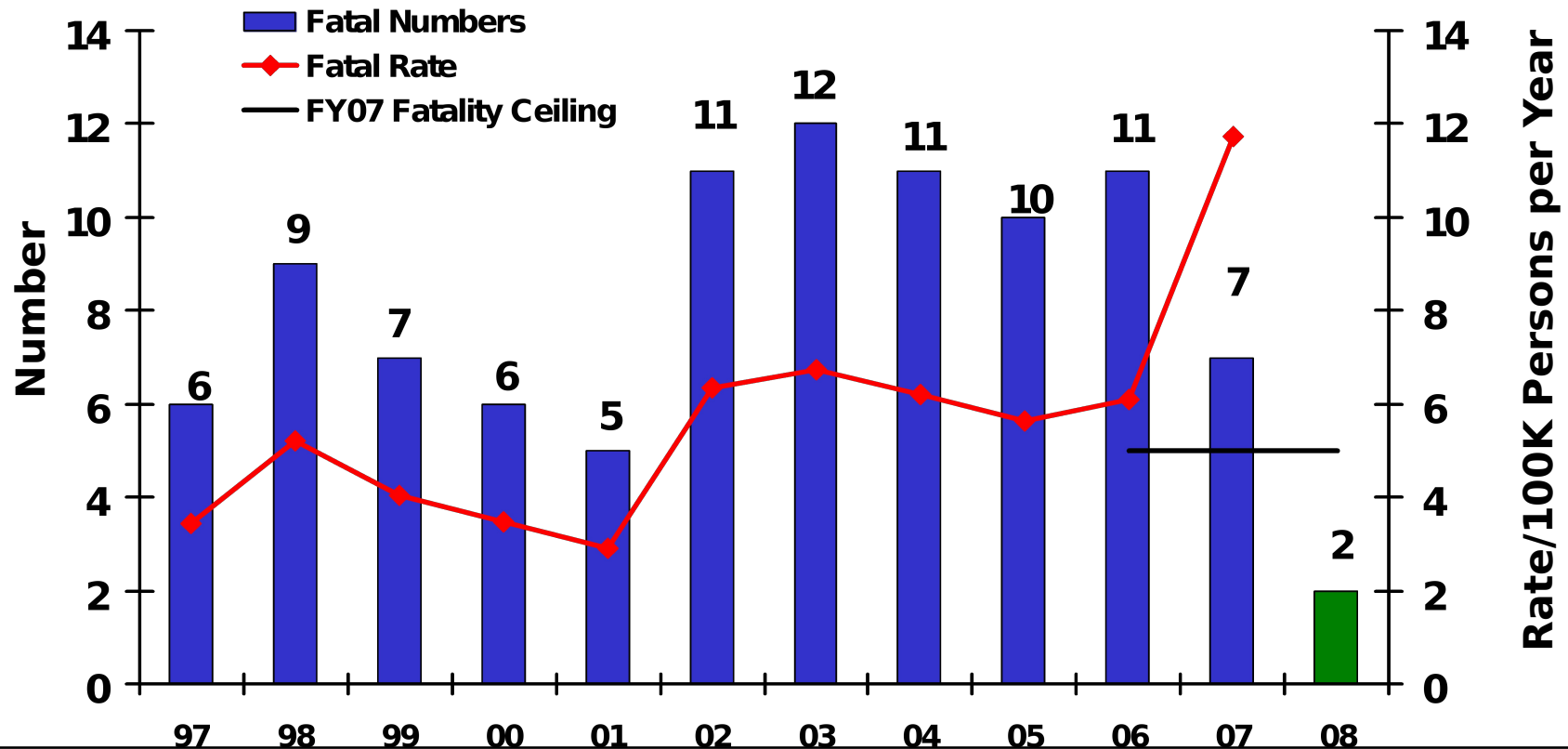


What Hazards Exist Here?





OFF-DUTY/REC FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 7 / 11.73 2 / 3.36

FY06 FATALITIES/FATALITY RATE: 11 / 6.11

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 8.8 / 5.02

ASC February 2007



Best Fleet Practices - Off-Duty Rec

- 1. Commanders/Commands and supervisors engaged in Risk Management and RODS program.**
- 2. Individuals use risk management process before participating in their leisure-time activities.**
- 3. RODS Program Managers - Ensure command personnel have seasonal hazard awareness training.**
- 4. Individual Off-Duty Risk Assessment Form - Assess behavior factors and indicators related to off-duty recreation mishaps.**



Navy ORM Model Manager

- Operational Risk Management – on and off duty
- NSC Spearheads the Navy's Revitalization Effort
 - Time Critical ORM is most relevant, least inculcated
- Coordinate ORM Strategy
 - **Leadership**
 - Developed Navy institutional ORM implementation model
 - Focus leadership on key ORM implementation issues
 - Recommending areas for resource allocation
 - **Education and Training**
 - Partnering with NETC on learning continuum
 - Partnering with accession commands for baseline enhancement
 - **Assessment**
 - Developing model for fleet ORM process assessment
 - Partnering with force commanders/evaluators for incorporation
 - **Feedback**
 - Instituting vehicles for status reports to force commanders
 - Instituting vehicles for Best Practice dissemination

THE COMMANDING OFFICER



SAFETY

PEOPLE

MANPOWER

TRAINING

OPS

FRP

FAMILY

HEALTH

MAINTENANCE

COMBAT
READINESS

PROGRAMS

CAREER



Recommendations to Improve Safety in Your Command

1. Naval Safety Center Website - The Tools Are There!

- **Traffic Safety Toolbox**
- **Web-Enabled Safety System (WESS) - Online mishap reporting / database**
- **Leave and Liberty Risk Assessments**

2. Ensure a SOLID Welcome Aboard, Sponsorship/ Mentorship Program.

- **First impressions are lasting ones**
- **On and Off duty activities must be addressed**

3. Identify “high-risk” personnel within command.

- **Ensure leadership is engaged with subordinate personnel**
- **Establish awareness training of high-risk activities and mentoring for high-risk personnel**
- **Identify motorcycle operators and confirm required training is complete**



Recommendations to Improve Safety in Your Command

4. Do the inexpensive things at a minimum.

- **Schedule a Culture Workshop / Safety Survey**
- **Distribute "Safe Ride" taxi cards**
- **Conduct pre-holiday safety standdowns**
- **Require leave chit risk assessments prior to authorizing leave**

5. Maintain high-visibility within command.

- **Establish and enforce standards- defined command safety policy**
- **Treat every mishap the same (PMV/Off-Duty Fatality hurts command as much as material mishap)**
- **Correct safety deficiencies immediately**
- **Hold personnel ACCOUNTABLE for failure to follow regulations**

6. INSPECT for compliance

- **Verify command policies are being followed**
- **Demonstrate daily commitment to safety**
- **Ensure experience level matches assigned duties**



What We Can Do for You

Naval Safety Center

Providing aviation, afloat, and shore support
to Navy and Marine Corps commands



NSC at your service... for free!

Let our experience, expertise and unrivaled
commitment to safety work for you.

Mishap Investigations

Surveys

Assist Visits

Data Analysis

Workshops

Publications

Website

Presentations

Exhibits

Call 757-444-3520 (DSN 564) or visit our website: www.safetycenter.navy.mil

ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page



TRAFFIC RISK PLANNING SYSTEM

- TRiPS
 - Delivered to the Naval Safety Center for Fleet use in 2006; based on ASMIS-2 Army Safety Management Information System
 - A click away on <http://www.safetycenter.navy.mil>
 - Provides ORM trip assessment and actual mishap cases relevant to planned trip. Risk values/models based on NTSB data
 - Trip map, times, distances and other products improve ***supervisor interaction***; CBT course content designed to help change behavior



Where We're Going **RISK MANAGEMENT**

- **ORM - Revitalization**
 - NSC Model Manager
 - Common Model
 - Time Critical ORM
 - Assessments
- **Motor vehicle mishap reduction initiatives**
 - USN / USMC IG effort
 - ID high-risk Sailors / Marines
 - DUI / DWI NJP guidance
 - Driver-training continuum
 - Motorcycle training
- **Executive Safety Board**
 - USN / USMC
- **WESS Upgrades**



A MISHAP-FREE NAVY+MARINE CORPS *Team*



NSC Website: Your Valuable Resource

www.safetycenter.navy.mil

ASC February



Work, Play, Live ... Safely!
Naval Safety Center

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Resources

- [TRIPS](#) (Travel Risk Planning System)
 - [Navy](#) • [Marines](#)
- [Executive Summary](#)
- [Safety Toolbox](#)
- [75% Mishap Reduction](#)
- [Presentations](#)
- [Traffic Safety Toolbox](#)
- [Success Stories](#)
- [Statistics](#)
- [Seasonal Resources](#)
- [POD Notes, Slogans](#)

Quick Links

- [Photo of the Week](#)
- [Friday Funnies](#)
- [Safety School](#)
- [Acquisition Safety](#)
- [Safety Surveys](#)
- [Culture Workshops](#)
- [Navy / NSC FOIA Request](#)
- [Secure Site \(PKI\)](#)

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Naval Safety Center,
375 A St., Norfolk, VA 23511
Contact the
[Webmaster](#) or
[Public Affairs Officer](#)

Last Updated: January 17, 2007

Traffic Death Update



On January 13, an AO3 from HS-7 was killed in a motorcycle wreck on an interstate near Jacksonville, Fla. He was apparently speeding.

[PMV Stats](#) | [PMV Narratives](#)

ry and Marine Corps PMV Deaths FY07 to date : **35**

In the Spotlight

What's New	More Articles
<ul style="list-style-type: none">• Read the latest Summary of Mishaps (a.k.a. the Friday Funnies)• Aviation 3750 - A special issue of <i>Mech and Approach</i>	<ul style="list-style-type: none">• Alcohol Effects -- It's Party TimeNew! • Navy and Marine Corps Safety Planner 2007 & 2007 Safety Planner Survey

Initiatives and Tools

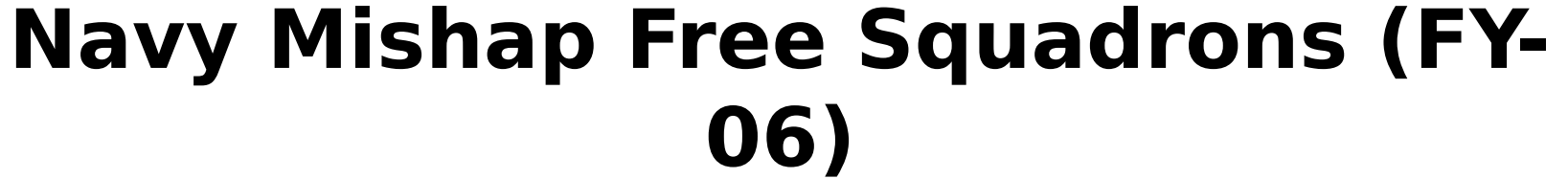
				
				



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VXSSC Fe³⁺ NAVEIGHT DEMRON



Questions?

